## PENDING CLAIMS AS AMENDED

## (MARKED UP VERSION)

## Claims 1- 19 (cancelled)

- (previously presented) Repair of the heart myocardium of a patient, the method comprising:
  - (a) providing an implantable system comprising:
  - (i) a cell repopulation source comprising genetic material, stem cells, or a combination thereof, capable of forming new contractile tissue in and/or near an infarct zone of a patient's myocardium; and
  - (ii) an electrical stimulation device for electrically stimulating the new contractile tissue in and/or near the infarct zone of the patient's myocardium;
- (b) implanting the cell repopulation source into and/or near the infarct zone of the myocardium of a patient;
- (c) allowing sufficient time for new contractile tissue to form from the cell repopulation source; and
  - (d) electrically stimulating the new contractile tissue.
- 21. (original) The method of claim 20 wherein the electrical stimulation device comprises a muscle stimulator and electrodes; wherein the electrodes are implanted into and/or near the infarct zone of the myocardium.
- 22. (original) The method of claim 20 wherein the muscle stimulator is implantable and is in the form of a capsule having electrodes incorporated therein.
- (original) The method of claim 22 wherein the muscle stimulator is a carrier for the cell repopulation source.
- 24. (original) The method of claim 23 wherein the muscle stimulator and cell repopulation source are delivered to the infarct zone through a catheter.

K:\MBC Patent And Contract\Applications\P7835\P7835.11 Cont 3\Respone to Examination of 8-18-08, Filed 1-16-09\P7835.11 US Cont 3 Response 1-12-09.doc

 (original) The method of claim 20 wherein the undifferentiated contractile cells comprise autologous cells.